

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 8855 (1978): Retractor, Langenbeck's Pattern [MHD 1: Surgical Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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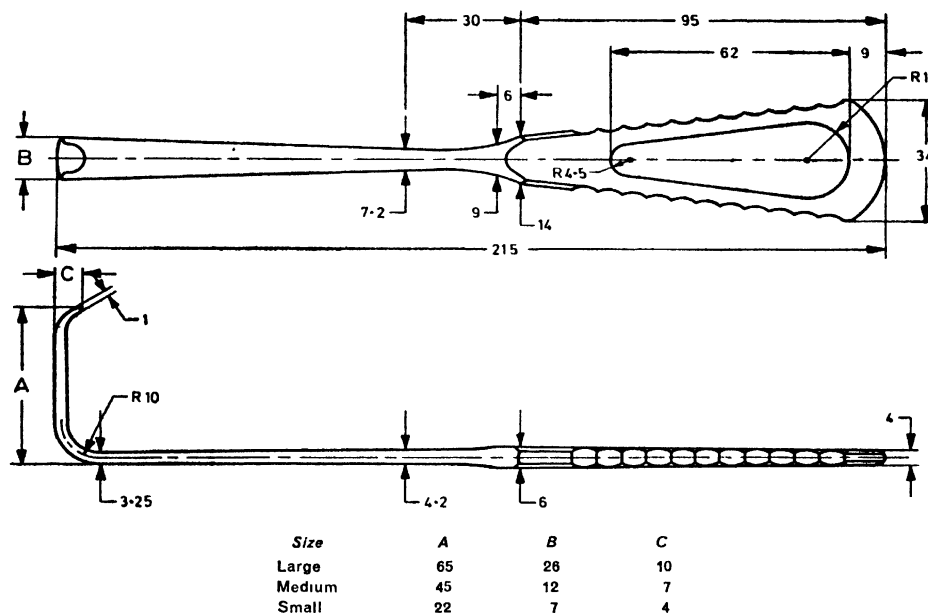


Indian Standard

# SPECIFICATION FOR RETRACTOR, LANGENBECK'S PATTERN

**1. Scope** — Dimensional and other requirements for Langenbeck's pattern retractor used in general surgery.

**2. Shape and Dimensions** — As shown in Fig. 1.



All dimensions in millimetres.

FIG 1 RETRACTOR, LANGENBECK'S PATTERN

**2.1** A deviation of  $\pm 2.5$  percent shall be allowed on all dimensions.

**3. Material** — Stainless steel conforming to Designation 20Cr13 or 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

## 4. Workmanship and Finish

**4.1** The retractor shall be well and evenly finished.

**4.2** The retractor shall be free from burrs, pits, cracks and other surface defects.

**4.3** The edges of the blade shall be properly rounded and the retractor shall be free from sharp edges.

**4.4** The retractor shall be polished bright and passivated.

Adopted 29 June 1978

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INDIAN STANDARDS INSTITUTION  
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NEW DELHI 110002

## **IS : 8855 – 1978**

**5. Heat Treatment** — The retractor shall be hardened and tempered to give a hardness of 380 to 430 HV.

### **6. Tests**

**6.1 Rigidity Test** — The retracting part of the blade shall be applied to the edge of the chair or table, it shall be pulled manually by exerting a maximum force along the axis of the handle. The retractor shall show no sign of damage or permanent set.

**6.1.1** A load of 25 kg shall be suspended from the top of the turned end of the retracting blade. The maximum load shall be gradually attained and maintained for 2 minutes. On completion of the test the retractor shall show no sign of damage or permanent set.

**6.2 Corrosion Resistance** — Test the retractor in accordance with IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. It shall show no sign of corrosion after the test.

**7. Marking** — The retractor shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark and the words 'Stainless Steel'. The marking shall preferably be done by electrical etching and not by stamping.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — As agreed to between the purchaser and the supplier.

AMENDMENT NO. 1 DECEMBER 1981  
TO  
IS:8855-1978 SPECIFICATION FOR RETRACTOR,  
LANGENBECK'S PATTERN

Alteration

(Page 1, Fig. 1, informal table) - Substitute  
the following for the existing matter:

<i>Size</i>	<i>A</i>	<i>B</i>	<i>C</i>
1	65	26	10
2	45	12	7
3	32	9	7
4	22	7	4

(CPDC 11)